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## (54) TRANSCEIVER CIRCUIT FOR CSMA/CD ACCESS SYSTEM LOCAL AREA NETWORK

(57) Abstract:

**PURPOSE:** To attain a priority function through the use of a standard medium access control(MAC) LSI by providing a transmission line utilizing rate measuring means and blocking the transmission of a transmission signal from a connection node when the measured transmission line utilizing rate is higher than a preset value.

**CONSTITUTION:** A transmission line utilizing rate measuring circuit 5 outputs the transmission line utilizing rate to a transmission control circuit 7 and a transmission control circuit 7 always monitors whether or not the transmission line utilizing rate exceeds the set utilizing rate. If the measured value exceeds the set transmission line utilizing rate, a transmission signal gate circuit 8 is controlled and the transmission signal from the node connected to a transceiver circuit is not sent to a transmission line 1. Moreover, when

the transmission signal from the node is detected afterward, a collision signal generating circuit 9 is driven to send a collision display signal. Thus, it is possible to send a packet with high priority while taking the precedence over other packets, and the priority control is attained by using the standard MAC LSI.

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